Title (en)

Accelerometer.

Title (de)

Beschleunigungsmesser.

Title (fr)

Accéléromètre.

Publication

EP 0490419 B1 19950222 (EN)

Application

EP 91203028 A 19911120

Priority

US 62539790 A 19901211

Abstract (en)

[origin: EP0490419A1] An accelerometer is provided which has a silicon substrate (14) bonded to a silicon capping plate (30) and a silicon back plate (32), wherein the bonds (26,28) between the three silicon wafers are characterized by a relatively low residual stress level over a wide temperature range. The bonds (26,28) are formed by means of an appropriate adhesive at a relatively low temperature without degradation to the accelerometer. The bonds (26,28) between the silicon wafers also provide stress relief during use and packaging of the accelerometer. The damping distance for the proof mass of the microaccelerometer can be accurately controlled and stop means (42,44) are provided for preventing excessive deflection of the proof mass (12) in a direction perpendicular to the plane of the accelerometer. <IMAGE>

IPC 1-7

G01P 15/08

IPC 8 full level

G01P 15/12 (2006.01); **G01P 15/08** (2006.01)

CPC (source: EP KR US)

G01P 3/44 (2013.01 - KR); **G01P 15/0802** (2013.01 - EP US); G01P 2015/084 (2013.01 - EP US); Y10S 73/01 (2013.01 - EP US)

Cited by

EP1662235A3; EP1582879A1; US7019231B2; WO9401782A1

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DOCDB simple family (publication)

EP 0490419 A1 19920617; **EP 0490419 B1 19950222**; DE 69107588 D1 19950330; DE 69107588 T2 19950706; JP H05322917 A 19931207; JP H0670643 B2 19940907; KR 920012919 A 19920728; KR 950000333 B1 19950113; US 5221400 A 19930622; US 5284057 A 19940208

DOCDB simple family (application)

EP 91203028 A 19911120; DE 69107588 T 19911120; JP 32743691 A 19911211; KR 910022140 A 19911204; US 62539790 A 19901211; US 97610092 A 19921113